

Title (en)
COMPACT REACTOR FOR ENZYMATIC TREATMENT

Title (de)
KOMPAKTER REAKTOR ZUR ENZYMATISCHEN BEHANDLUNG

Title (fr)
RÉACTEUR COMPACT POUR LE TRAITEMENT ENZYMATIQUE

Publication
EP 3204486 A4 20180704 (EN)

Application
EP 15848356 A 20151005

Priority
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Abstract (en)
[origin: WO2016056922A1] Reactor for enzymatic hydrolysis of a raw material comprising in sequence: i) -a first heat exchanger (HEX1) adapted to heat the raw material supplied to the reactor to a temperature within a range that favours enzymatic hydrolysis, ii) -a reactor comprising plural in reactor chambers (R1-R6) connected in series, separated by closable valves (V1-V6), iii) -a second heat exchanger (HEX2) adapted to heat the reaction mixture to a temperature higher than the temperature range favouring enzymatic hydrolysis, the reactor being formed with inclined tubular reactor chambers (R1-R6) assembled to form a reactor with vertical axis, the first reactor chamber (R1) being the vertically uppermost chamber of the reactor, while at least one reactor chamber is adapted to be stirred with a through-flowing inert gas.

IPC 8 full level
C12M 1/02 (2006.01); **B01F 33/40** (2022.01); **C12M 1/04** (2006.01); **C12M 1/18** (2006.01); **C12M 1/40** (2006.01)

CPC (source: DK EP NO RU US)
B01J 19/14 (2013.01 - NO); **C12M 1/00** (2013.01 - NO); **C12M 1/02** (2013.01 - NO); **C12M 1/04** (2013.01 - DK NO); **C12M 1/18** (2013.01 - NO); **C12M 1/40** (2013.01 - DK NO); **C12M 21/18** (2013.01 - DK EP NO RU US); **C12M 23/06** (2013.01 - EP NO RU US); **C12M 23/24** (2013.01 - DK); **C12M 23/44** (2013.01 - NO); **C12M 23/58** (2013.01 - EP NO RU US); **C12M 27/00** (2013.01 - DK); **C12M 29/06** (2013.01 - EP RU US); **C12M 29/08** (2013.01 - NO); **C12M 29/24** (2013.01 - NO); **C12M 41/12** (2013.01 - NO); **C12M 41/18** (2013.01 - NO); **C12M 41/22** (2013.01 - EP NO RU US); **C12M 45/09** (2013.01 - EP RU US); **C12M 1/04** (2013.01 - US)

Citation (search report)
• [A] WO 2006126891 A1 20061130 - AGLÉN LARS [NO], et al
• [A] US 5733758 A 19980331 - NGUYEN QUANG A [US]
• [A] WO 9506111 A1 19950302 - CONSIGLIO NAZIONALE RICERCHE [IT], et al
• See also references of WO 2016056922A1

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